

Application/Control Number: 10/816,623
Art Unit: 2628

Page 4

vertices;". In lines 20-21 after the phrase "...average length of s and t ;", insert the phrase " s , r , and t each being a direction vector;".

SR 12/26/07
Claim 66: In line ²³24 after the phrase "...in the world space of the reference model;..." delete the semicolon (;) and insert the phrase ", each vertex being a coordinate in (x,y,z) in local space of the reference model, i and k being respectively the row and column of a matrix of the vertices;". In lines ²⁶⁻²⁷27-28 after the phrase "...average length of s and t ;", insert the phrase " s , r , and t each being a direction vector;".

SR 12/26/07
Authorization for an examiner's amendment was also given in a telephone interview with Norman Klivans on November 15, 2007.

Amend the claims as follows:

Cancel claims 73-75, 77 and 78.

Allowable Subject Matter

Claims 1-4, 6-24, 26-43, 45-60, 62-72, 79, 80, 82-85 and 87 are allowed. The following is an examiner's statement of reasons for allowance:

The prior art Lengyel et al.(US Patent 6,606,095), does not teach the following limitations of claims 1, 21, 40, 57: wherein at least one basis coordinate system comprises a triangle defined by the vertices $P_{i, k-1}$, $P_{i+1,k-1}$, $P_{i+1,k-2}$ where the reference vertex is $P_{i,k}$, and is an odd row of the surface. Therefore claims 1-4, 9-11, 13-17, 19-24, 29, 31-36, 38-43, 48, 49, 54-60, 65 and 70-72 are allowable.

The prior art, does not teach the following limitations of claims 6, 26, 45, 62: wherein at least one basis coordinate system comprises a triangle defined by the vertices $P_{i, k-1}$, $P_{i+1,k-1}$, $P_{i+1,k-2}$.